Add-on Card AOC-CTG-i1S

Specifications

Add-on Card

Compact and Powerful 10 Gigabit Ethernet Adapter

The AOC-CTG-i1S 10 Gigabit Ethernet Adapter is the most flexible and scalable Ethernet adapter for today's demanding data center environments. Based on the Intel® 10GbE network controller 82599EN, the AOC-CTG-i1S addresses the demanding needs of the next-generation data center by providing features for virtualization, flexibility for LAN and SAN networking, and proven reliable performance. The AOC-CTG-i1S is designed in a small microLP form factor to fit Supermicro Twin server systems.

This product is only available through Supermicro.

Key Features

- Single SFP+ Connector
- MicroLP Form Factor
- PCI Express 2.0 (up to 5GT/s)
- Intel?QuickData Technology
- VMDq, Next-Generation VMDq, and
- PC-SIG SR-IOV for Virtualized Environments
- Load Balancing on Multiple CPUs
- iSCSI Remote Boot Support
- Fibre Channel over Ethernet (FCoE) Support
- Support for most Network Operating Systems (NOSs)
- Support both DAC Twin Axial and LC Fiber-Optic Cables
- RoHS compliant 6/6

Compliance

RoHS	▪ RoHS Compliant 6/6, Pb Free

Downloads

User's Guide	[Download] (2.20MB)
Datasheet	[Download]
Driver	Choose the latest CDR-NIC folder, and then click on Intel folder for driver [FTP Site]
Driver CD	Click on the latest CDR-NIC ISO file to download [FTP Site]

Compatibility Matrices

Servers	Supermicro MicroCloud and Twin Server Systems with microLP expansion slot. See MicroLP Compatibility Matrix
Cables & Transceivers	Networking Cables & Transceivers

Specification

• General
- Intel® 82599EN 10GbE controller
- Compact size microLP form factor
- Single SFP+ port and dual USB 2.0 ports
- PCI-E x8 2.0 (5GT/s)
- Load balancing on multiple CPUs
- iSCSI remote boot support
- Fibre Channel over Ethernet (FCoE) Support
- Intel® PROSet Utility for Windows® Device Manager

• I/O Features
- Intel QuickData Technology: DMA engine that enhances
- Data acceleration and lowers CPU usage
- Direct Cache Access (DCA) to avoid cache misses
- MSI-X support to minimize the overhead of interrupts
- Allowing load-balancing between multiple cores/CPUs
- Tx/Rx IP, SCTP, TCP and UDP checksum offloading Capabilities (IPv4, IPv6)
- Receive and Transmit Side Scaling for Windows
- environments and Scalable I/O for Linux environments

• Virtualization Features
- Supports virtualization features such as VMDq,
- Next-generation VMDq (64 queues per port) and
- PC-SIG SR-IOV implementation
- IPv6 Offloading
- Advanced Packet Filtering
- VLAN support to allow creation of multiple VLAN segments
- VXLAN through Software

• Manageability Features
- Preboot eXecution Environment (PXE) support
- Simple Network Management Protocol (SNMP) and Remote
- Network Monitoring (RMON) statistics counters
- iSCSI remote boot

• OS Support
- Windows® 7, 2003, 2008, 2008 R2, Vista
- RedHat EL, SuSe SLES
- FreeBSD
- VMWare

• Cables Support
- SFP+ direct attached twin axial cables, up to 7 meters
- LC-LC fiber-optic cables (optional SFP+ transceiver is required)

• Operating Conditions
- Operating temperature: 0°C to 55°C (32°F to 131°F)

• Physical Dimensions (L x W)
- Card PCB dimensions (without end brackets): 12.32cm (4.85in) x 3.90cm (1.54in)

Parts List

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	Part Number	Qty	Description
Add-on Card	AOC-CTG-i1S	1	AOC-CTG-i1S 10 Gigabit Ethernet Adapter
Bracket	BKT-0056L	1	MicroLP PCB bracket (pre-installed)
	BKT-0057L	1	I/O bracket for 1U system (pre-installed)
	BKT-0058L	1	I/O bracket for 2U system

Optional Parts List

	Part Number	Qty	Description
SFP+ Copper Cable	CBL-0347L	-	1m 10GbE SFP+ to SFP+, Passive, 30AWG, Pull Type
SFP+ Copper Cable	CBL-NTWK-0347	-	1m 10GbE SFP+ to SFP+, Passive, 30AWG, Push Type
SFP+ Copper Cable	CBL-NTWK-0456	-	2m 10GbE SFP+ to SFP+, Passive, 30AWG, Push Type
SFP+ Copper Cable	CBL-0348L	-	3m 10GbE SFP+ to SFP+, Passive, 24AWG, Pull release
SFP+ Copper Cable	CBL-0349L	-	5m 10GbE SFP+ to SFP+, Passive, 24AWG, Pull release

SFP+ Active Optical Cable	CBL-SFP+AOC-1M	-	1m 10GbE SFP+ to SFP+ Fiber Active Optical Cable (AOC)
SFP+ Active Optical Cable	CBL-SFP+AOC-3M	-	3m 10GbE SFP+ to SFP+ Fiber Active Optical Cable (AOC)
SFP+ Active Optical Cable	CBL-SFP+AOC-5M	-	5m 10GbE SFP+ to SFP+ Fiber Active Optical Cable (AOC)
SFP+ Transceiver module	AOC-E10GSFPSR	-	SFP+ transceiver module for short range fiber cables (up to 300m), 10G/1G, 850nm, MMF, LC
SFP+ Transceiver module	AOC-E10GSFPLR	-	SFP+ transceiver module for long range fiber cables (up to 3000m), 10G/1G, 1310nm, MMF, LC
SFP+ Transceiver module	AOM-TSFP-709DMZ-AVG	-	SFP+ transceiver module for short range fiber cables, 10G/1G, 850nm, MMF, LC

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